We claim:

- 1. A brachytherapy strand for implantation into a subject comprising seeds comprising
 - (a) a non-radionuclide imaging marker, and
- 5 (b) a biocompatible carrier,

wherein the strand is flexible or elastic, and has a size and shape suitable for passing through the bore of a needle having an interior diameter of less than about 2.7 millimeters (10 gauge).

- 2. The strand of claim 1 formed of a synthetic polymer.
- 10 3. The strand of claim 1 formed of an inorganic material.
 - 4. The strand of claim 1 formed of a natural material selected from the group consisting of proteins, peptides, polysaccharides, lipids, and combinations thereof.
 - 5. The strand of claim 1 formed of a shape memory material.
- 15 6. The strand of claim 1 further comprising a therapeutic or diagnostic agent.
 - 7. The strand of claim 1 further comprising conduits or pores along the length of the strand.
- The strand of claim 7 further comprising a portal for external
 access using a needle or other introducer instrument for purposes of filling the conduits or pores with therapeutic or diagnostic agents after implantation.
 - 9. The strand of claim 1 further comprising a radioactive agent.
 - 10. The strand of claim 1 wherein the imaging marker is detectable by
- 25 X-ray, fluorescence, infrared, ultrasound, magnetic detection, or MRI.
 - 11. The strand of claim 1, wherein the size and shape is suitable for passing through the bore of a needle having an interior diameter of less than about 1.4 millimeters (15 gauge).
- 12. The strand of claim 1, wherein the seed is shaped into a cylinder30 having a diameter of between about 0.5 to 3 millimeters and a length of 4 to 500 millimeters.

- 13. The strand of claim 1, wherein the strand comprises seeds strung on or formed as a strand of between about 0.5 and 3 mm diameter and a length of between one and 50 cm.
- 14. The strand of claim 1, wherein the carrier is biodegradable.
- 5 15. The strand of claim1 further comprising a material selected from the group consisting of ferromagnetic microspheres, oxygen, hemoglobin, synthetic hemoglobin-like substances and drugs for enhancing oxygen perfusion.
 - 16. The strand of claim 1, further comprising a radioactive agent.
- 10 17. The strand of claim 9 further comprising a means of tracing the radioactive agent.
 - 18. The strand of claim 1 further comprising a radiosensitizing agent.
 - 19. The strand of claim 1 wherein the imaging marker is a radiopaque marker comprising a substance selected from the group
- consisting of platinum, iridium, rhenium, gold, tantalum, bismuth, indium, tungsten, silver, and radiopaque polymers.
 - 20. The strand of claim 1 further comprising hairs coating the external surface of the brachytherapy strand for enhancement of adhesive potential.
- 20 21. The strand of claim 1 further comprising shape memory polymeric anchoring structures or electroactive polymeric anchoring structures.
 - 22. The strand of claim 3 wherein the inorganic material is selected from the group consisting of silicon, coral, fullerene, bioceramic, and hydroxyapatite.
 - 23. The strand of claim 1 wherein the seed is formed of a composite of an inorganic material and a polymer.
 - 24. A method of making a brachytherapy strand for implantation into a subject comprising mixing a biocompatible flexible or elastic carrier with a non-radioactive imaging agent to form seeds in a brachytherapy
 - strand.

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- 25. A method for administering a therapeutically active component to a target tissue in a subject, the method comprising implanting a brachytherapy strand comprising seeds comprising
 - (a) a non-radionuclide imaging marker, and
- 5 (b) a biocompatible carrier,

wherein the strand is flexible or elastic, and has a size and shape suitable for passing through the bore of a needle having an interior diameter of less than about 2.7 millimeters (10 gauge).

The method of claim 25, wherein the target tissue is a diseasedtissue selected from the group consisting of prostate, breast and tongue.